NEW SOURCE REVIEW (NSR) AND FEDERALLY ENFORCEABLE STATE OPERATING PERMIT (FESOP) OFFICE OF AIR QUALITY

Kokomo Grain Company
East Pennsylvania
Amboy, Indiana 46911

(herein known as the Permittee) is hereby authorized to operate subject to the conditions contained herein, the source described in Section A (Source Summary) of this permit.

This permit is issued in accordance with 326 IAC 2 and 40 CFR Part 70 Appendix A and contains the conditions and provisions specified in 326 IAC 2-8 as required by 42 U.S.C. 7401, et. seq. (Clean Air Act as amended by the 1990 Clean Air Act Amendments), 40 CFR Part 70.6, IC 13-15 and IC 13-17.

Operation Permit No.: F103-16038-00005	
Issued by:Original signed by Paul Dubenetzky Paul Dubenetzky, Branch Chief Office of Air Quality	Issuance Date: May 14, 2003 Expiration Date: May 14, 2008

SECTION A SOURCE SUMMARY

This permit is based on information requested by the Indiana Department of Environmental Management (IDEM), Office of Air Quality (OAQ). The information describing the source contained in Section A.2 is descriptive information and does not constitute enforceable conditions. However, the Permittee should be aware that a physical change or a change in the method of operation that may render this descriptive information obsolete or inaccurate may trigger requirements for the Permittee to obtain additional permits or seek modification of this permit pursuant to 326 IAC 2, or change other applicable requirements presented in the permit application.

A.1 General Information [326 IAC 2-8-3(b)]

The Permittee owns and operates a grain terminal elevator, with the capability to process 8,500 bushels per hour or 74,460,000 bushels of grain per year.

Authorized individual:	Thomas Madru
Source Address:	East Pennsylvania, Amboy, Indiana 46911
Mailing Address:	P. O. Box 745, Kokomo, Indiana 46903
General Source Phone:	(765) 457-7536
SIC Code:	5153
Source Location Status:	Attainment for all criteria pollutants
Source Status:	Federally Enforceable State Operating Permit (FESOP) Minor Source, under PSD Rules; Minor Source, Section 112 of the Clean Air Act

A.2 Emission Units and Pollution Control Equipment Summary [326 IAC 2-8-3(c)(3)]

This stationary source consists of the following emission units and pollution control devices:

Proposed Emission Units

(a) Two (2) concrete silos, one (1) with a storage capacity of 550,000 bushels of grain, and one (1) with a storage capacity of 600,000 bushels of grain;

(b) One (1) grain receiving totally enclosed conveyor, with a maximum rate of 25,000 bushels per hour;

(c) One (1) bin emptying totally enclosed conveyor, with a maximum rate of 30,000 bushels per hour;

(d) Two (2) 22,500 bushels/hour receiving legs, which will replace existing two (2) 15,000 bushels/hour receiving legs;

(e) One (1) 35,000 bushels/hour load out leg, which will replace existing one (1) 8,000 bushel/hour load out leg;

(f) One (1) 15,000 bushels/hour grain leg, which will replace existing one (1) 6,500 bushels/hour grain leg that elevated grain to the dryers;

(g) One (1) 60,000 bushels/hour rail load out, which will replace existing one (1) 35,000 bushels/ hour load out; and

(h) One (1) 80-foot enclosed belt conveyor rated at 35,000 bushels/hour to connect the new leg to the load out.

Permitted Emission Units

(a) One 10 x 11 feet (ft) grain dump with a maximum capacity of 1000 bushels. PM is controlled by the application of oil in boot pit;

(b) One (1) 26.2 million British thermal units (mmBtu/hr), natural gas-fired column grain dryer with a maximum capacity of 5000 bushels per hour, with plate perforation of 0.078 inch;

(c) One (1) 26.2 million British thermal units (mmBtu/hr), natural gas-fired column grain dryer with a maximum capacity of 3,500 bushels per hour, with plate perforation of 0.078 inch;

(d) Two (2) 50 ft diameter x 100 foot height concrete silos, with a total capacity of 175,000 bushels;

(e) One (1) 240 x 720 ft flat storage building, with a capacity of 4.8 million bushels;

(f) One (1) concrete slab for open grain stockpile;

(g) Four (4) concrete storage silos, each with a storage capacity of 210,000 bushels, each exhausting through air vents located at the top of the silos;

(h) Six (6) enclosed belt conveyors, each with a capacity of 25,000 bushels per hour; and

(i) (1) enclosed drag conveyor, with a capacity of 7,500 bushels per hour.

A.3 Insignificant Activities [326 IAC 2-7-1(21)] [326 IAC 2-8-3(c)(3)(I)]

This stationary source does not currently have any insignificant activities, as defined in 326 IAC 2-7-1(21).

A.4 FESOP Applicability [326 IAC 2-8-2]

This stationary source, otherwise required to have a Part 70 permit as described in 326 IAC 2-7-2(a), has applied to the Indiana Department of Environmental Management (IDEM), Office of Air Quality (OAQ) for a Federally Enforceable State Operating Permit (FESOP).

A.5 Prior Permits Superseded [326 IAC 2-1.1-9.5]

(a) All terms and conditions of previous permits issued pursuant to permitting programs approved into the state implementation plan have been either

(1) incorporated as originally stated,

(2) revised, or

(3) deleted

by this permit.

(b) All previous registrations and permits are superseded by this permit.

SECTION B GENERAL CONDITIONS

B.1 Permit No Defense [IC 13]

Indiana statutes from IC 13 and rules from 326 IAC, quoted in conditions in this permit, are those applicable at the time the permit was issued. The issuance or possession of this permit shall not alone constitute a defense against an alleged violation of any law, regulation or standard, except for the requirement to obtain a FESOP under 326 IAC 2-8.

B.2 Definitions [326 IAC 2-8-1]

Terms in this permit shall have the definition assigned to such terms in the referenced regulation. In the absence of definitions in the referenced regulation, the applicable definitions found in the statutes or regulations (IC 13-11, 326 IAC 1-2, and 326 IAC 2-7) shall prevail.

B.3 Permit Term [326 IAC 2-8-4(2)][326 IAC 2-1.1-9.5]

This permit is issued for a fixed term of five (5) years from the issuance date of this permit, as determined in accordance with IC 4-21.5-3-5(f) and IC 13-15-5-3. Subsequent revisions, modifications, or amendments of this permit do not affect the expiration date.

B.4 Enforceability [326 IAC 2-8-6]

Unless otherwise stated, all terms and conditions in this permit, including any provisions designed to limit the source's potential to emit, are enforceable by IDEM, the United States Environmental Protection Agency (U.S. EPA) and by citizens in accordance with the Clean Air Act.

B.5 Termination of Right to Operate [326 IAC 2-8-9] [326 IAC 2-8-3(h)]

The Permittee's right to operate this source terminates with the expiration of this permit unless a timely and complete renewal application is submitted at least nine (9) months prior to the date of expiration of the source's existing permit, consistent with 326 IAC 2-8-3(h) and 326 IAC 2-8-9.

B.6 Severability [326 IAC 2-8-4(4)]

The provisions of this permit are severable; a determination that any portion of this permit is invalid shall not affect the validity of the remainder of the permit.

B.7 Property Rights or Exclusive Privilege [326 IAC 2-8-4(5)(D)]

This permit does not convey any property rights of any sort, or any exclusive privilege.

B.8 Duty to Supplement and Provide Information [326 IAC 2-8-3(f)] [326 IAC 2-8-4(5)(E)] [326 IAC 2-8-5(a)(4)]

(a) The Permittee, upon becoming aware that any relevant facts were omitted or incorrect information was submitted in the permit application, shall promptly submit such supplementary facts or corrected information to:

Indiana Department of Environmental Management
Permits Branch, Office of Air Quality
100 North Senate Avenue, P.O. Box 6015
Indianapolis, Indiana 46206-6015

The submittal by the Permittee does require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

(b) The Permittee shall furnish to IDEM, OAQ, within a reasonable time, any information that IDEM, OAQ, may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with this permit. The submittal by the Permittee does require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1). Upon request, the Permittee shall also furnish to IDEM, OAQ, copies of records required to be kept by this permit.

(c) For information furnished by the Permittee to IDEM, OAQ, the Permittee may include a claim of confidentiality in accordance with 326 IAC 17.1 When furnishing copies of requested records directly to U. S. EPA, the Permittee may assert a claim of confidentiality in accordance with 40 CFR 2, Subpart B.

B.9 Compliance Order Issuance [326 IAC 2-8-5(b)]

IDEM, OAQ may issue a compliance order to this Permittee upon discovery that this permit is in nonconformance with an applicable requirement. The order may require immediate compliance or contain a schedule for expeditious compliance with the applicable requirement.

B.10 Compliance with Permit Conditions [326 IAC 2-8-4(5)(A)] [326 IAC 2-8-4(5)(B)]

(a) The Permittee must comply with all conditions of this permit. Noncompliance with any provisions of this permit is grounds for:

(1) Enforcement action;

(2) Permit termination, revocation and reissuance, or modification; and

(3) Denial of a permit renewal application.

(b) It shall not be a defense for the Permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.

(c) An emergency does constitute an affirmative defense in an enforcement action provided the Permittee complies with the applicable requirements set forth in Section B, Emergency Provisions.

B.11 Certification [326 IAC 2-8-3(d)] [326 IAC 2-8-4(3)(C)(i)] [326 IAC 2-8-5(1)]

(a) Where specifically designated by this permit or required by an applicable requirement, any application form, report, or compliance certification submitted shall contain certification by an authorized individual of truth, accuracy, and completeness. This certification, shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.

(b) One (1) certification shall be included, using the attached Certification Form, with each submittal requiring certification.

(c) An authorized individual is defined at 326 IAC 2-1.1-1(1).

B.12 Annual Compliance Certification [326 IAC 2-8-5(a)(1)]

(a) The Permittee shall annually submit a compliance certification report which addresses the status of the source's compliance with the terms and conditions contained in this permit, including emission limitations, standards, or work practices. The initial certification shall cover the time period from the date of final permit issuance through December 31 of the same year. All subsequent certifications shall cover the time period from January 1 to December 31 of the previous year, and shall be submitted in letter form no later than July 1 of each year to:

Indiana Department of Environmental Management
Compliance Branch, Office of Air Quality
100 North Senate Avenue, P.O. Box 6015
Indianapolis, Indiana 46206-6015

(b) The annual compliance certification report required by this permit shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document

is submitted by any other means, it shall be considered timely if received by IDEM, OAQ, on or before the date it is due.

(c) The annual compliance certification report shall include the following:

(1) The appropriate identification of each term or condition of this permit that is the basis of the certification;

(2) The compliance status;

(3) Whether compliance was continuous or intermittent;

(4) The methods used for determining the compliance status of the source, currently and over the reporting period consistent with 326 IAC 2-8-4(3); and

(5) Such other facts as specified in Sections D of this permit, IDEM, OAQ, may require to determine the compliance status of the source.

The notification which shall be submitted by the Permittee does require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

B.13 Preventive Maintenance Plan [326 IAC 1-6-3] [326 IAC 2-8-4(9)] [326 IAC 2-8-5(a)(1)]

(a) If required by specific condition(s) in Section D of this permit, the Permittee shall prepare and maintain Preventive Maintenance Plans (PMPs) within ninety (90) days.

(1) Identification of the individual(s) responsible for inspecting, maintaining, and repairing emission control devices;

(2) A description of the items or conditions that will be inspected and the inspection schedule for said items or conditions; and

(3) Identification and quantification of the replacement parts that will be maintained in inventory for quick replacement.

If due to circumstances beyond the Permittee's control, the PMPs cannot be prepared and maintained within the above time frame, the Permittee may extend the date an additional ninety (90) days provided the Permittee notifies:

Indiana Department of Environmental Management
Compliance Branch, Office of Air Quality
100 North Senate Avenue, P. O. Box 6015
Indianapolis, Indiana 46206-6015

The PMP extension notification does not require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

(b) The Permittee shall implement the PMPs as necessary to ensure that failure to implement a PMP does not cause or contribute to a violation of any limitation on emissions or potential to emit.

(c) A copy of the PMPs shall be submitted to IDEM, OAQ, upon request and within a reasonable time, and shall be subject to review and approval by IDEM, OAQ. IDEM, OAQ, may require the Permittee to revise its PMPs whenever lack of proper maintenance causes or contributes to any violation. The PMP does not require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

(d) Records of preventive maintenance shall be retained for a period of at least five (5) years. These records shall be kept at the source location for a minimum of three (3)

years. The records may be stored elsewhere for the remaining two (2) years as long as they are available upon request. If the Commissioner makes a request for records to the Permittee, the Permittee shall furnish the records to the Commissioner within a reasonable time.

B.14 Emergency Provisions [326 IAC 2-8-12]

(a) An emergency, as defined in 326 IAC 2-7-1(12), is not an affirmative defense for an action brought for noncompliance with a federal or state health-based emission limitation, except as provided in 326 IAC 2-8-12.

(b) An emergency, as defined in 326 IAC 2-7-1(12), constitutes an affirmative defense to an action brought for noncompliance with a health-based or technology-based emission limitation if the affirmative defense of an emergency is demonstrated through properly signed, contemporaneous operating logs or other relevant evidence that describes the following:

(1) An emergency occurred and the Permittee can, to the extent possible, identify the causes of the emergency;

(2) The permitted facility was at the time being properly operated;

(3) During the period of an emergency, the Permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standards or other requirements in this permit;

(4) For each emergency lasting one (1) hour or more, the Permittee notified IDEM, OAQ within four (4) daytime business hours after the beginning of the emergency, or after the emergency was discovered or reasonably should have been discovered;

Telephone No.: 1-800-451-6027 (ask for Office of Air Quality, Compliance Section) or,
Telephone No.: 317-233-5674 (ask for Compliance Section)
Facsimile No.: 317-233-5967

(5) For each emergency lasting one (1) hour or more, the Permittee submitted the attached Emergency Occurrence Report Form or its equivalent, either by mail or facsimile to:

Indiana Department of Environmental Management
Compliance Branch, Office of Air Quality
100 North Senate Avenue, P.O. Box 6015
Indianapolis, Indiana 46206-6015

within two (2) working days of the time when emission limitations were exceeded due to the emergency.

The notice fulfills the requirement of 326 IAC 2-8-4(3)(C)(ii) and must contain the following:

(A) A description of the emergency;

(B) Any steps taken to mitigate the emissions; and

(C) Corrective actions taken.

The notification which shall be submitted by the Permittee does not require the certification by the “authorized individual” as defined by 326 IAC 2-1.1-1(1).

(6) The Permittee immediately took all reasonable steps to correct the emergency.

(c) In any enforcement proceeding, the Permittee seeking to establish the occurrence of an emergency has the burden of proof.

(d) This emergency provision supersedes 326 IAC 1-6 (Malfunctions). This permit condition is in addition to any emergency or upset provision contained in any applicable requirement.

(e) IDEM, OAQ, may require that the Preventive Maintenance Plans required under 326 IAC 2-8-3(c)(6) be revised in response to an emergency.

(f) Failure to notify IDEM, OAQ, by telephone or facsimile of an emergency lasting more than one (1) hour in accordance with (b)(4) and (5) of this condition shall constitute a violation of 326 IAC 2-8 and any other applicable rules.

(g) Operations may continue during an emergency only if the following conditions are met:

(1) If the emergency situation causes a deviation from a technology-based limit, the Permittee may continue to operate the affected emitting facilities during the emergency provided the Permittee immediately takes all reasonable steps to correct the emergency and minimize emissions.

(2) If an emergency situation causes a deviation from a health-based limit, the Permittee may not continue to operate the affected emissions facilities unless:

(A) The Permittee immediately takes all reasonable steps to correct the emergency situation and to minimize emissions; and

(B) Continued operation of the facilities is necessary to prevent imminent injury to persons, severe damage to equipment, substantial loss of capital investment, or loss of product or raw material of substantial economic value.

Any operations shall continue no longer than the minimum time required to prevent the situations identified in (g)(2)(B) of this condition.

(h) The Permittee shall include all emergencies in the Quarterly Deviation and Compliance Monitoring Report.

B.15 Deviations from Permit Requirements and Conditions [326 IAC 2-8-4(3)(C)(ii)]

(a) Deviations from any permit requirements (for emergencies see Section B - Emergency Provision), the probable cause of such deviations, and any response steps or preventive measures taken shall be reported to:

Indiana Department of Environmental Management
Compliance Data Section, Office of Air Quality
100 North Senate Avenue, P.O. Box 6015
Indianapolis, Indiana 46206-6015

using the attached Quarterly Deviation and Compliance Monitoring Report, or its equivalent. A deviation required to be reported pursuant to an applicable requirement that exists independent of this permit, shall be reported according to the schedule stated in the applicable requirement and does need to be included in this report.

The Quarterly Deviation and Compliance Monitoring Report does require the certification by the “authorized individual” as defined by 326 IAC 2-1.1-1(1).

(b) A deviation is an exceedance of a permit limitation or a failure to comply with a requirement of the permit.

B.16 Permit Modification, Reopening, Revocation and Reissuance, or Termination [326 IAC 2-8-4(5)(C)] [326 IAC 2-8-7(a)] [326 IAC 2-8-8]

(a) This permit may be modified, reopened, revoked and reissued, or terminated for cause. The filing of a request by the Permittee for a FESOP modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any condition of this permit. [326 IAC 2-8-4(5)(C)] The notification by the Permittee does require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

(b) This permit shall be reopened and revised under any of the circumstances listed in IC 13-15-7-2 or if IDEM, OAQ determines any of the following:

(1) That this permit contains a material mistake.

(2) That inaccurate statements were made in establishing the emissions standards or other terms or conditions.

(3) That this permit must be revised or revoked to assure compliance with an applicable requirement. [326 IAC 2-8-8(a)]

(c) Proceedings by IDEM, OAQ to reopen and revise this permit shall follow the same procedures as apply to initial permit issuance and shall affect only those parts of this permit for which cause to reopen exists. Such reopening and revision shall be made as expeditiously as practicable. [326 IAC 2-8-8(b)]

(d) The reopening and revision of this permit, under 326 IAC 2-8-8(a), shall not be initiated before notice of such intent is provided to the Permittee by IDEM, OAQ, at least thirty (30) days in advance of the date this permit is to be reopened, except that IDEM, OAQ, may provide a shorter time period in the case of an emergency. [326 IAC 2-8-8(c)]

B.17 Permit Renewal [326 IAC 2-8-3(h)]

(a) The application for renewal shall be submitted using the application form or forms prescribed by IDEM, OAQ and shall include the information specified in 326 IAC 2-8-3. Such information shall be included in the application for each emission unit at this source, except those emission units included on the trivial or insignificant activities list contained in 326 IAC 2-7-1(21) and 326 IAC 2-7-1(40). The renewal application does require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

Request for renewal shall be submitted to:

Indiana Department of Environmental Management
Permits Branch, Office of Air Quality
100 North Senate Avenue, P.O. Box 6015
Indianapolis, IN 46206-6015

(b) Timely Submittal of Permit Renewal [326 IAC 2-8-3]

(1) A timely renewal application is one that is:

(A) Submitted at least nine (9) months prior to the date of the expiration of this permit; and

(B) If the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be

considered timely if received by IDEM, OAQ, on or before the date it is due.

(2) If IDEM, OAQ upon receiving a timely and complete permit application, fails to issue or deny the permit renewal prior to the expiration date of this permit, this existing permit shall not expire and all terms and conditions shall continue in effect until the renewal permit has been issued or denied.

(c) Right to Operate After Application for Renewal [326 IAC 2-8-9]
If the Permittee submits a timely and complete application for renewal of this permit, the source's failure to have a permit is not a violation of 326 IAC 2-8 until IDEM, OAQ takes final action on the renewal application, except that this protection shall cease to apply if, subsequent to the completeness determination, the Permittee fails to submit by the deadline specified in writing by IDEM, OAQ, any additional information identified as needed to process the application.

B.18 Permit Amendment or Revision [326 IAC 2-8-10] [326 IAC 2-8-11.1]

(a) Permit amendments and revisions are governed by the requirements of 326 IAC 2-8-10 or 326 IAC 2-8-11.1 whenever the Permittee seeks to amend or modify this permit.

(b) Any application requesting an amendment or modification of this permit shall be submitted to:

Indiana Department of Environmental Management
Permits Branch, Office of Air Quality
100 North Senate Avenue, P.O. Box 6015
Indianapolis, Indiana 46206-6015

Any such application shall be certified by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

(c) The Permittee may implement the administrative amendment changes addressed in the request for an administrative amendment immediately upon submittal of the request. [326 IAC 2-8-10(b)(3)]

B.19 Operational Flexibility [326 IAC 2-8-15][326 IAC 2-8-11.1]

(a) The Permittee may make any change or changes at this source that are described in 326 IAC 2-8-15(b) through (d), without prior permit revision, if each of the following conditions is met:

(1) The changes are not modifications under any provision of Title I of the Clean Air Act;

(2) Any approval required by 326 IAC 2-8-11.1 has been obtained;

(3) The changes do not result in emissions which exceed the emissions allowable under this permit (whether expressed herein as a rate of emissions or in terms of total emissions);

(4) The Permittee notifies the:

Indiana Department of Environmental Management
Permits Branch, Office of Air Quality
100 North Senate Avenue, P.O. Box 6015
Indianapolis, Indiana 46206-6015

and

United States Environmental Protection Agency, Region V
Air and Radiation Division, Regulation Development Branch - Indiana (AR-18J)
77 West Jackson Boulevard
Chicago, Illinois 60604-3590

in advance of the change by written notification at least ten (10) days in advance of the proposed change. The Permittee shall attach every such notice to the Permittee's copy of this permit; and

(5) The Permittee maintains records on-site which document, on a rolling five (5) year basis, all such changes and emissions trading that are subject to 326 IAC 2-8-15(b) through (d) and makes such records available, upon reasonable request, to public review.

Such records shall consist of all information required to be submitted to IDEM, OAQ, in the notices specified in 326 IAC 2-8-15(b)(2), (c)(1), and (d).

(b) Emission Trades [326 IAC 2-8-15(c)]
The Permittee may trade increases and decreases in emissions in the source, where the applicable SIP provides for such emission trades without requiring a permit revision, subject to the constraints of Section (a) of this condition and those in 326 IAC 2-8-15(c).

(c) Alternative Operating Scenarios [326 IAC 2-8-15(d)]
The Permittee may make changes at the source within the range of alternative operating scenarios that are described in the terms and conditions of this permit in accordance with 326 IAC 2-8-4(7). No prior notification of IDEM, OAQ or U.S. EPA is required.

B.20 Permit Revision Requirement [326 IAC 2-8-11.1]

A modification, construction, or reconstruction is governed by the requirements of 326 IAC 2 and 326 IAC 2-8-11.1.

B.21 Inspection and Entry [326 IAC 2-8-5(a)(2)] [IC 13-14-2-2]

Upon presentation of proper identification cards, credentials, and other documents as may be required by law, and subject to the Permittee's right under all applicable laws and regulations to assert that the information collected by the agency is confidential and entitled to be treated as such, the Permittee shall allow IDEM, OAQ, U.S. EPA, or an authorized representative to perform the following:

(a) Enter upon the Permittee's premises where a FESOP source is located, or emissions related activity is conducted, or where records must be kept under the conditions of this permit;

(b) Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;

(c) Inspect, at reasonable times, any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit;

(d) Sample or monitor, at reasonable times, substances or parameters for the purpose of assuring compliance with this permit or applicable requirements; and

(e) Utilize any photographic, recording, testing, monitoring, or other equipment for the purpose of assuring compliance with this permit or applicable requirements.

B.22 Transfer of Ownership or Operational Control [326 IAC 2-8-10]

(a) The Permittee must comply with the requirements of 326 IAC 2-8-10 whenever the Permittee seeks to change the ownership or operational control of the source and no

other change in the permit is necessary.

(b) Any application requesting a change in the ownership or operational control of the source shall contain a written agreement containing a specific date for transfer of permit responsibility, coverage and liability between the current and new Permittee. The application shall be submitted to:

Indiana Department of Environmental Management
Permits Branch, Office of Air Quality
100 North Senate Avenue, P.O. Box 6015
Indianapolis, Indiana 46206-6015

The application which shall be submitted by the Permittee does require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

(c) The Permittee may implement administrative amendment changes addressed in the request for an administrative amendment immediately upon submittal of the request. [326 IAC 2-8-10(b)(3)]

B.23 Annual Fee Payment [326 IAC 2-7-19] [326 IAC 2-8-4(6)] [326 IAC 2-8-16][326 IAC 2-1.1-7]

(a) The Permittee shall pay annual fees to IDEM, OAQ, within thirty (30) calendar days of receipt of a billing. Pursuant to 326 IAC 2-7-19(b), if the Permittee does not receive a bill from IDEM, OAQ the applicable fee is due April 1 of each year.

(b) Failure to pay may result in administrative enforcement action, or revocation of this permit.

(c) The Permittee may call the following telephone numbers: 1-800-451-6027 or 317-233-4320 (ask for OAQ, I/M & Billing Section), to determine the appropriate permit fee.

B.24 Advanced Source Modification Approval [326 IAC 2-8-4(11)] [326 IAC 2-1.1-9]

(a) The requirements to obtain a permit revision under 326 IAC 2-8-11.1 are satisfied by this permit for the proposed emission units, control equipment or insignificant activities in Sections A.2 and A.3.

(b) Pursuant to 326 IAC 2-1.1-9 any permit authorizing construction may be revoked if construction of the emission unit has not commenced within eighteen (18) months from the date of issuance of the permit, or if during the construction work is suspended for a continuous period of one (1) year or more.

SECTION C SOURCE OPERATION CONDITIONS

Entire Source

Emissions Limitations and Standards [326 IAC 2-8-4(1)]

C.1 Overall Source Limit [326 IAC 2-8]

The purpose of this permit is to limit this source's potential to emit to less than major source levels for the purpose of Section 502(a) of the Clean Air Act.

(a) Pursuant to 326 IAC 2-8:

(1) The potential to emit any regulated pollutant, except particulate matter (PM), from the entire source shall be limited to less than one-hundred (100) tons per twelve (12) consecutive month period. This limitation shall also satisfy the requirements of 326 IAC 2-3 (Emission Offset);

(2) The potential to emit any individual hazardous air pollutant (HAP) from the entire source shall be limited to less than ten (10) tons per twelve (12) consecutive month period; and

(3) The potential to emit any combination of HAPs from the entire source shall be limited to less than twenty-five (25) tons per twelve (12) consecutive month period.

(b) Pursuant to 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)), potential to emit particulate matter (PM) from the entire source shall be limited to less than two hundred fifty (250) tons per twelve (12) consecutive month period.

C.2 Opacity [326 IAC 5-1]

Pursuant to 326 IAC 5-1-2 (Opacity Limitations), except as provided in 326 IAC 5-1-3 (Temporary Alternative Opacity Limitations), opacity shall meet the following, unless otherwise stated in this permit:

(a) Opacity shall not exceed an average of forty percent (40%) in any one (1) six (6) minute averaging period as determined in 326 IAC 5-1-4.

(b) Opacity shall not exceed sixty percent (60%) for more than a cumulative total of fifteen (15) minutes (sixty (60) readings as measured according to 40 CFR 60, Appendix A, Method 9 or fifteen (15) one (1) minute nonoverlapping integrated averages for a continuous opacity monitor) in a six (6) hour period.

C.3 Open Burning [326 IAC 4-1] [IC 13-17-9]

The Permittee shall not open burn any material except as provided in 326 IAC 4-1-3, 326 IAC 4-1-4 or 326 IAC 4-1-6. The previous sentence notwithstanding, the Permittee may open burn in accordance with an open burning approval issued by the Commissioner under 326 IAC 4-1-4.1.

C.4 Incineration [326 IAC 4-2] [326 IAC 9-1-2(3)]

The Permittee shall not operate an incinerator or incinerate any waste or refuse except as provided in 326 IAC 4-2 and in 326 IAC 9-1-2.

C.5 Fugitive Dust Emissions [326 IAC 6-4]

The Permittee shall not allow fugitive dust to escape beyond the property line or boundaries of the property, right-of-way, or easement on which the source is located, in a manner that would violate 326 IAC 6-4 (Fugitive Dust Emissions).

C.6 Stack Height [326 IAC 1-7]

The Permittee shall comply with the applicable provisions of 326 IAC 1-7 (Stack Height Provisions), for all exhaust stacks through which a potential (before controls) of twenty-five (25) tons per year or more of particulate matter or sulfur dioxide is emitted.

C.7 Asbestos Abatement Projects [326 IAC 14-10] [326 IAC 18] [40 CFR 61, Subpart M]

(a) Notification requirements apply to each owner or operator. If the combined amount of regulated asbestos containing material (RACM) to be stripped, removed or disturbed is at least 260 linear feet on pipes or 160 square feet on other facility components, or at least thirty-five (35) cubic feet on all facility components, then the notification requirements of 326 IAC 14-10-3 are mandatory. All demolition projects require notification whether or not asbestos is present.

(b) The Permittee shall ensure that a written notification is sent on a form provided by the Commissioner at least ten (10) working days before asbestos stripping or removal work or before demolition begins, per 326 IAC 14-10-3, and shall update such notice as necessary, including, but not limited to the following:

(1) When the amount of affected asbestos containing material increases or decreases by at least twenty percent (20%); or

(2) If there is a change in the following:

(A) Asbestos removal or demolition start date;

(B) Removal or demolition contractor; or

(C) Waste disposal site.

(c) The Permittee shall ensure that the notice is postmarked or delivered according to the guidelines set forth in 326 IAC 14-10-3(2).

(d) The notice to be submitted shall include the information enumerated in 326 IAC 14-10-3(3).

All required notifications shall be submitted to:

Indiana Department of Environmental Management
Asbestos Section, Office of Air Quality
100 North Senate Avenue, P.O. Box 6015
Indianapolis, Indiana 46206-6015

The notice shall include a signed certification from the owner or operator that the information provided in this notification is correct and that only Indiana licensed workers and project supervisors will be used to implement the asbestos removal project. The notifications do not require a certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

(e) Procedures for Asbestos Emission Control
The Permittee shall comply with the applicable emission control procedures in 326 IAC 14-10-4 and 40 CFR 61.145(c). Per 326 IAC 14-10-1 emission control requirements are applicable for any removal or disturbance of RACM greater than three (3) linear feet on pipes or three (3) square feet on any other facility components or a total of at least 0.75 cubic feet on all facility components.

(f) Indiana Accredited Asbestos Inspector
The Permittee shall comply with 326 IAC 14-10-1(a) that requires the owner or operator,

prior to a renovation/demolition, to use an Indiana Accredited Asbestos Inspector to thoroughly inspect the affected portion of the facility for the presence of asbestos. The requirement that the inspector be accredited is federally enforceable.

Testing Requirements [326 IAC 2-8-4(3)]

C.8 Performance Testing [326 IAC 3-6]

(a) All testing shall be performed according to the provisions of 326 IAC 3-6 (Source Sampling Procedures), except as provided elsewhere in this permit, utilizing any applicable procedures and analysis methods specified in 40 CFR 51, 40 CFR 60, 40 CFR 61, 40 CFR 63, 40 CFR 75, or other procedures approved by IDEM, OAQ.

A test protocol, except as provided elsewhere in this permit, shall be submitted to:

Indiana Department of Environmental Management
Compliance Data Section, Office of Air Quality
100 North Senate Avenue, P. O. Box 6015
Indianapolis, Indiana 46206-6015

no later than thirty-five (35) days prior to the intended test date. The protocol submitted by the Permittee does not require certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

(b) The Permittee shall notify IDEM, OAQ of the actual test date at least fourteen (14) days prior to the actual test date. The notification submitted by the Permittee does not require certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

(c) Pursuant to 326 IAC 3-6-4(b), all test reports must be received by IDEM, OAQ, not later than forty-five (45) days after the completion of the testing. An extension may be granted by IDEM, OAQ, if the source submits to IDEM, OAQ, a reasonable written explanation not later than five (5) days prior to the end of the initial forty-five (45) day period.

Compliance Requirements [326 IAC 2-1.1-11]

C.9 Compliance Requirements [326 IAC 2-1.1-11]

The commissioner may require stack testing, monitoring, or reporting at any time to assure compliance with all applicable requirements by issuing an order under 326 IAC 2-1.1-11. Any monitoring or testing shall be performed in accordance with 326 IAC 3 or other methods approved by the commissioner or the U. S. EPA.

C.10 Monitoring Methods [326 IAC 3] [40 CFR 60] [40 CFR 63]

Any monitoring or testing performed required by Section D of this permit shall be performed according to the provisions of 326 IAC 3, 40 CFR 60, Appendix A, 40 CFR 60 Appendix B, 40 CFR 63 or other approved methods as specified in this permit.

Corrective Actions and Response Steps [326 IAC 2-8-4] [326 IAC 2-8-5(a)(1)]

C.11 Emergency Reduction Plans [326 IAC 1-5-2] [326 IAC 1-5-3]

Pursuant to 326 IAC 1-5-2 (Emergency Reduction Plans; Submission):

(a) The Permittee shall prepare written emergency reduction plans (ERPs) consistent with safe operating procedures.

(b) These ERPs shall be submitted for approval to:

Indiana Department of Environmental Management

Compliance Branch, Office of Air Quality
100 North Senate Avenue, P.O. Box 6015
Indianapolis, Indiana 46206-6015

within 180 days from the date on which the new emission units included in this permit commences operation.

The ERP does require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

(c) If the ERP is disapproved by IDEM, OAQ, the Permittee shall have an additional thirty (30) days to resolve the differences and submit an approvable ERP.

(d) These ERPs shall state those actions that will be taken, when each episode level is declared, to reduce or eliminate emissions of the appropriate air pollutants.

(e) Said ERPs shall also identify the sources of air pollutants, the approximate amount of reduction of the pollutants, and a brief description of the manner in which the reduction will be achieved.

(f) Upon direct notification by IDEM, OAQ, that a specific air pollution episode level is in effect, the Permittee shall immediately put into effect the actions stipulated in the approved ERP for the appropriate episode level. [326 IAC 1-5-3]

C.12 Risk Management Plan [326 IAC 2-8-4] [40 CFR 68.215]

If a regulated substance, subject to 40 CFR 68, is present at a source in more than a threshold quantity, 40 CFR 68 is an applicable requirement and the Permittee shall submit:

(a) A compliance schedule for meeting the requirements of 40 CFR 68; or

(b) As a part of the annual compliance certification submitted under 326 IAC 2-7-6(5), a certification statement that the source is in compliance with all the requirements of 40 CFR 68, including the registration and submission of a Risk Management Plan (RMP); and

All documents submitted pursuant to this condition shall include the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

C.13 Actions Related to Noncompliance Demonstrated by a Stack Test [326 IAC 2-8-4] [326 IAC 2-8-5]

(a) When the results of a stack test performed in conformance with Section C - Performance Testing, of this permit exceed the level specified in any condition of this permit, the Permittee shall take appropriate response actions. The Permittee shall submit a description of these response actions to IDEM, OAQ, within thirty (30) days of receipt of the test results. The Permittee shall take appropriate action to minimize excess emissions from the affected facility while the response actions are being implemented.

(b) A retest to demonstrate compliance shall be performed within one hundred twenty (120) days of receipt of the original test results. Should the Permittee demonstrate to IDEM, OAQ that retesting in one-hundred and twenty (120) days is not practicable, IDEM, OAQ may extend the retesting deadline.

(c) IDEM, OAQ reserves the authority to take any actions allowed under law in response to noncompliant stack tests.

The documents submitted pursuant to this condition do require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

Record Keeping and Reporting Requirements [326 IAC 2-8-4(3)]

C.14 General Record Keeping Requirements [326 IAC 2-8-4(3)] [326 IAC 2-8-5]

(a) Records of all required data, reports and support information shall be retained for a period of at least five (5) years from the date of monitoring sample, measurement, report, or application. These records shall be kept at the source location for a minimum of three (3) years. The records may be stored elsewhere for the remaining two (2) years as long as they are available upon request. If the Commissioner makes a request for records to the Permittee, the Permittee shall furnish the records to the Commissioner within a reasonable time.

(b) Unless otherwise specified in this permit, all record keeping requirements not already legally required shall be implemented within ninety (90) days of permit issuance.

C.15 General Reporting Requirements [326 IAC 2-8-4(3)(C)] [326 IAC 2-1.1-11]

(a) The source shall submit the attached Quarterly Deviation and Compliance Monitoring Report or its equivalent. Any deviation from permit requirements, the date(s) of each deviation, the cause of the deviation, and the response steps taken must be reported. This report shall be submitted within thirty (30) days of the end of the reporting period. The Quarterly Deviation and Compliance Monitoring Report shall include the certification by the "authorized individual" as defined by 326 IAC2-1.1-1(1).

(b) The report required in (a) of this condition and reports required by conditions in Section D of this permit shall be submitted to:

Indiana Department of Environmental Management
Compliance Branch, Office of Air Quality
100 North Senate Avenue, P. O. Box 6015
Indianapolis, Indiana 46206-6015

(c) Unless otherwise specified in this permit, any notice, report, or other submission required by this permit shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ, on or before the date it is due.

(d) Unless otherwise specified in this permit, all reports required in Section D of this permit shall be submitted within thirty (30) days of the end of the reporting period. All reports do require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

(e) The first report covered the period commencing on the date of issuance of the original FESOP and ended on the last day of the reporting period. All subsequent reporting periods shall be based on calendar years.

C.16 Compliance with 40 CFR 82 and 326 IAC 22-1

Pursuant to 40 CFR 82 (Protection of Stratospheric Ozone), Subpart F, except as provided for motor vehicle air conditioners in Subpart B, the Permittee shall comply with the standards for recycling and emissions reduction:

(a) Persons opening appliances for maintenance, service, repair or disposal must comply with the required practices pursuant to 40 CFR 82.156

(b) Equipment used during the maintenance, service, repair or disposal of appliances must comply with the standards for recycling and recovery equipment pursuant to 40 CFR 82.158.

(c) Persons performing maintenance, service, repair or disposal of appliances must be certified by an approved technician certification program pursuant to 40 CFR 82.161.

SECTION D.1 FACILITY OPERATION CONDITIONS

Proposed Emission Units

(a) Two (2) concrete silos, one (1) with a storage capacity of 550,000 bushels of grain, and one (1) with a storage capacity of 600,000 bushels of grain;

(b) One (1) grain receiving totally enclosed conveyor, with a maximum rate of 25,000 bushels per hour;

(c) One (1) bin emptying totally enclosed conveyor, with a maximum rate of 30,000 bushels per hour;

(d) Two (2) 22,500 bushels/hour receiving legs, which will replace existing two (2) 15,000 bushels/hour receiving legs;

(e) One (1) 35,000 bushels/hour load out leg, which will replace existing one (1) 8,000 bushel/hour load out leg;

(f) One (1) 15,000 bushels/hour grain leg, which will replace existing one (1) 6,500 bushels/hour grain leg that elevated grain to the dryers;

(g) One (1) 60,000 bushels/hour rail load out, which will replace existing one (1) 35,000 bushels/ hour load out; and

(h) One (1) 80-foot enclosed belt conveyor rated at 35,000 bushels/hour to connect the new leg to the load out.

Permitted Emission Units

(a) One 10 x 11 feet (ft) grain dump with a maximum capacity of 1000 bushels. PM is controlled by the application of oil in boot pit;

(b) One (1) 26.2 million British thermal units (mmBtu/hr), natural gas-fired column grain dryer with a maximum capacity of 5000 bushels per hour, with plate perforation of 0.078 inch;

(c) One (1) 26.2 million British thermal units (mmBtu/hr), natural gas-fired column grain dryer with a maximum capacity of 3,500 bushels per hour, with plate perforation of 0.078 inch;

(d) Two (2) 50 ft diameter x 100 foot height concrete silos, with a total capacity of 175,000 bushels;

(e) One (1) 240 x 720 ft flat storage building, with a capacity of 4.8 million bushels;

(f) One (1) concrete slab for open grain stockpile;

(g) Four (4) concrete storage silos, each with a storage capacity of 210,000 bushels, each exhausting through air vents located at the top of the silos;

(h) Six (6) enclosed belt conveyors, each with a capacity of 25,000 bushels per hour; and

(i) (1) enclosed drag conveyor, with a capacity of 7,500 bushels per hour.

(The information describing the process contained in this facility description box is descriptive information and does not constitute enforceable conditions.)

Emission Limitations and Standards [326 IAC 2-8-4(1)]

D.1.1 PSD Minor Limit and Part 70 Permit [326 IAC 2-2] [326 IAC 2-7]

(a) Pursuant to 326 IAC 2-2 and 326 IAC 2-7, the grain throughput that can be processed by the source shall be limited to 41,590,000 bushels per twelve-month period, with compliance determined at the end of each month. Compliance with this grain throughput limit, the application of mineral oil at a rate required in Condition D.1.5, and process enclosures shall limit the PM emissions to less than 250 tons per twelve-month period, and the PM10 emissions to less than 100 tons per twelve-month period. Therefore, 326 IAC 2-2, Prevention of Significant Deterioration and 326 IAC 2-7, Part 70 Permit Program shall not apply.

D.1.2 Particulate [326 IAC 6-3-2]

Pursuant to 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes), the allowable particulate emission rate from the two (2) grain dryers shall not exceed 54.17 lbs/hr pounds per hour when operating at a process weight rate of 132.9 tons per hour (265,832 pounds per hour).

The pounds per hour limitation was calculated with the following equation:

Interpolation and extrapolation of the data for the process weight rate in excess of 60,000 pounds per hour shall be accomplished by use of the equation:

$E = 55.0\ P^{0.11} - 40$ where E = rate of emission in pounds per hour; and

D.1.3 New Source Performance Standards (NSPS) [40 CFR Part 60.300, Subpart DD]

Pursuant to 40 CFR Part 60.302, the following requirements shall apply:

(a) On and after the 60th day of achieving the maximum production rate at which the affected facility will be operated, but no later than 180 days after initial startup, no owner or operator subject to the provisions of this subpart shall cause to be discharged into the atmosphere any fugitive emission from:

(1) Any individual truck unloading station, railcar unloading station, or railcar loading station, which exhibits greater than 5 percent opacity.

(2) Any grain handling operation which exhibits greater than 0 percent opacity.

(3) Any truck loading station which exhibits greater than 10 percent opacity.

(4) Any barge or ship loading station which exhibits greater than 20 percent opacity.

D.1.4 Preventive Maintenance Plan [326 IAC 2-8-4(9)]

A Preventive Maintenance Plan, in accordance with Section B - Preventive Maintenance Plan, of this permit, is required for this facility and any control devices

Compliance Determination Requirements

D1.5 PM Control Emissions [326 IAC 2-2] [326 IAC 6-3]

(a) The source shall apply mineral oil to control dust at the conveyor right after the grain is dumped into the Grain Dump Pit at all times that grain is received at the plant, at a rate of 0.02 percent by weight until a rate is determined during compliance tests.

(b) The process enclosure shall be in place at all times the process is in operation.

Testing Requirements

D.1.6 Testing Requirements [326 IAC 2-8-5(a)(1), (4)] [326 IAC 2-1.1-11]

Within sixty (60) days after achieving the maximum production rate but no later than 180 days after initial startup of the new emission units described in Section A.2, the Permittee shall conduct compliance stack test to establish the application rate of the mineral oil applied to the grain that correspond to the following PM/PM10 control efficiencies used in establishing the limit in the amount of grain to be processed as required in Condition D.1.1:

Facility	PM/PM10 Abatement Type	Control Efficiency (%)
Internal Operations	Mineral Oil and Process Enclosure	90%
Bin Loading	Mineral Oil	70%
Shipping (Rail)	Mineral Oil	70%

This test shall be repeated at least once every five (5) years from the date of this valid compliance demonstration. Testing shall be conducted in accordance with Section C-Performance Testing.

Record Keeping and Reporting Requirement [326 IAC 2-8-4(3)] [326 IAC 2-8-16]

D.1.7 Record Keeping Requirements

(a) To document compliance with Condition D.1.1, the Permittee shall maintain records of monthly grain being processed at the plant.

(b) To document compliance with Condition D.1.1, and D.1.5 the Permittee shall maintain records of the amount of mineral oil applied to the grain.

(c) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

D.1.8 Reporting Requirements

A quarterly summary of the information to document compliance with Condition D.1.1, shall be submitted to the address listed in Section C - General Reporting Requirements, of this permit, using the reporting forms located at the end of this permit, or their equivalent, within thirty (30) days after the end of the quarter being reported. The report submitted by the Permittee does require the certification by the “authorized individual” as defined by 326 IAC 2-1.1-1(1).

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY

FEDERALLY ENFORCEABLE STATE OPERATING PERMIT (FESOP) CERTIFICATION

Source Name: Kokomo Grain Company
Source Address: East Pennsylvania, Amboy, Indiana 46911
Mailing Address: P.O. Box 745, Kokomo, Indiana 46903
FESOP No.: F103-16038-00005

This certification shall be included when submitting monitoring, testing reports/results or other documents as required by this permit.

Please check what document is being certified:

9 Annual Compliance Certification Letter

9 Test Result (specify) _____

9 Report (specify) _____

9 Notification (specify) _____

9 Affidavit (specify) _____

9 Other (specify) _____

I certify that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.

Signature:

Printed Name:

Title/Position:

Date:

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY

COMPLIANCE BRANCH
P.O. Box 6015
100 North Senate Avenue
Indianapolis, Indiana 46206-6015
Phone: 317-233-5674
Fax: 317-233-5967

FEDERALLY ENFORCEABLE STATE OPERATING PERMIT (FESOP)
EMERGENCY OCCURRENCE REPORT

Source Name: Kokomo Grain Company
Source Address: East Pennsylvania, Amboy, Indiana 46911
Mailing Address: P.O. Box 745, Kokomo, Indiana 46903
FESOP No.: F103-16038-00005

This form consists of 2 pages **Page 1 of 2**

9 This is an emergency as defined in 326 IAC 2-7-1(12)

- The Permittee must notify the Office of Air Quality (OAQ), within four (**4**) business hours (1-800-451-6027 or 317-233-5674, ask for Compliance Section); and
- The Permittee must submit notice in writing or by facsimile within two (**2**) working days (Facsimile Number: 317-233-5967), and follow the other requirements of 326 IAC 2-7-16

If any of the following are not applicable, mark N/A

Facility/Equipment/Operation:
Control Equipment:
Permit Condition or Operation Limitation in Permit:
Description of the Emergency:
Describe the cause of the Emergency:

If any of the following are not applicable, mark N/A **Page 2 of 2**

Date/Time Emergency started:
Date/Time Emergency was corrected:
Was the facility being properly operated at the time of the emergency? Y N Describe:
Type of Pollutants Emitted: TSP, PM-10, SO_2, VOC, NO_X, CO, Pb, other:
Estimated amount of pollutant(s) emitted during emergency:
Describe the steps taken to mitigate the problem:
Describe the corrective actions/response steps taken:
Describe the measures taken to minimize emissions:
If applicable, describe the reasons why continued operation of the facilities are necessary to prevent imminent injury to persons, severe damage to equipment, substantial loss of capital investment, or loss of product or raw materials of substantial economic value:

Form Completed by: _____
Title / Position: _____
Date: _____
Phone: _____

A certification is not required for this report.

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE DATA SECTION

FESOP THROUGHPUT Report

Submit Report Quarterly

Source Name: Kokomo Grain Company
Source Address: East Pennsylvania, Amboy, Indiana 46911
Mailing Address: P.O. Box 745, Kokomo, Indiana 46903
FESOP No.: F103-16038-00005
Facility: Sourcewide
Parameter: PM and PM10
Limit: 41,590,000 bushels per twelve-month period, with demonstration at the end of each month. Compliance with this grain throughput limit, the application of mineral oil at a rate determined during compliance tests, and process enclosures shall limit the PM emissions to less than 250 tons per twelve month period, and the PM10 emissions to less than 100 tons per twelve month period.

QUARTER: _____YEAR: _____

Month	Column 1	Column 2	Column 1 + Column 2
	Grain Processed This Month	Grain Processed Previous 11 Months	Grain Processed 12 Month Total
Month 1			
Month 2			
Month 3			

9 No deviation occurred in this quarter.

9 Deviation/s occurred in this quarter.
Deviation has been reported on: _____

Submitted by: _____
Title / Position: _____
Signature: _____
Date: _____
Phone: _____

Attach a signed certification to complete this report.

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE DATA SECTION

FEDERALLY ENFORCEABLE STATE OPERATING PERMIT (FESOP)
QUARTERLY DEVIATION AND COMPLIANCE MONITORING REPORT

Source Name: Kokomo Grain Company
Source Address: East Pennsylvania, Amboy, Indiana 46911
Mailing Address: P.O. Box 745, Kokomo
FESOP No.: F103-16038-00005

Months: _____ to _____ Year: _____

This report shall be submitted quarterly based on a calendar year. Any deviation from the requirements, the date(s) of each deviation, the probable cause of the deviation, and the response steps taken must be reported. Deviations that are required to be reported by an applicable requirement shall be reported according to the schedule stated in the applicable requirement and do not need to be included in this report. Additional pages may be attached if necessary. If no deviations occurred, please specify in the box marked "No deviations occurred this reporting period".

9 NO DEVIATIONS OCCURRED THIS REPORTING PERIOD.

9 THE FOLLOWING DEVIATIONS OCCURRED THIS REPORTING PERIOD

Permit Requirement (D.1.1)	
Date of Deviation:	**Duration of Deviation:**
Number of Deviations:	
Probable Cause of Deviation:	
Response Steps Taken:	

Permit Requirement (D.1.3)	
Date of Deviation:	**Duration of Deviation:**
Number of Deviations:	
Probable Cause of Deviation:	
Response Steps Taken:	

Permit Requirement (D.1.5)	
Date of Deviation:	**Duration of Deviation:**
Number of Deviations:	
Probable Cause of Deviation:	
Response Steps Taken:	

Permit Requirement (specify permit condition #)	
Date of Deviation:	**Duration of Deviation:**
Number of Deviations:	
Probable Cause of Deviation:	
Response Steps Taken:	

Permit Requirement (specify permit condition #)	
Date of Deviation:	**Duration of Deviation:**
Number of Deviations:	
Probable Cause of Deviation:	
Response Steps Taken:	

Form Completed By: _____

Title/Position: _____

Date: _____

Phone: _____

Attach a signed certification to complete this report.

Indiana Department of Environmental Management
Office of Air Quality

Technical Support Document (TSD) for a New Source Review and Federally State Operating Permit (FESOP)

Source Background and Description

Source Name:	Kokomo Grain Company
Source Location:	East Pennsylvania, Amboy, Indiana 46911
County:	Miami
SIC Code:	5153
NSR/FESOP No.:	103-16038-00005
Permit Reviewer:	Aida De Guzman

The Office of Air Quality (OAQ) has reviewed an application from Kokomo Grain Company relating to the construction and operation of the following emission units and pollution control devices used in a grain terminal elevator. The source has the capability to process 8,500 bushels per hour or 74,460,000 bushels of grain per year.

Proposed Emission Units

(a) Two (2) concrete silos, one (1) with a storage capacity of 550,000 bushels of grain, and one (1) with a storage capacity of 600,000 bushels of grain;

(b) One (1) grain receiving totally enclosed conveyor, with a maximum rate of 25,000 bushels per hour;

(c) One (1) bin emptying totally enclosed conveyor, with a maximum rate of 30,000 bushels per hour;

(d) Two (2) 22,500 bushels/hour receiving legs, which will replace existing two (2) 15,000 bushels/hour receiving legs;

(e) One (1) 35,000 bushels/hour load out leg, which will replace existing one (1) 8,000 bushel/hour load out leg;

(f) One (1) 15,000 bushels/hour grain leg, which will replace existing one (1) 6,500 bushels/hour grain leg that elevated grain to the dryers;

(g) One (1) 60,000 bushels/hour rail load out, which will replace existing one (1) 35,000 bushels/ hour load out; and

(h) One (1) 80-foot enclosed belt conveyor rated at 35,000 bushels/hour to connect the new leg to the load out.

Permitted Emission Units

(a) One 10 x 11 feet (ft) grain dump with a maximum capacity of 1000 bushels. PM is controlled by the application of oil in boot pit;

(b) One (1) 26.2 million British thermal units (mmBtu/hr), natural gas-fired column grain dryer with a maximum capacity of 5000 bushels per hour, with plate perforation of 0.078 inch;

(c) One (1) 26.2 million British thermal units (mmBtu/hr), natural gas-fired column grain dryer with a maximum capacity of 3,500 bushels per hour, with plate perforation of 0.078 inch;

(d) Two (2) 50 ft diameter x 100 foot height concrete silos, with a total capacity of 175,000 bushels;

(e) One (1) 240 x 720 ft flat storage building, with a capacity of 4.8 million bushels;

(f) One (1) concrete slab for open grain stockpile;

(e) Four (4) concrete storage silos, each with a storage capacity of 210,000 bushels, each exhausting through air vents located at the top of the silos;

(f) Six (6) enclosed belt conveyors, each with a capacity of 25,000 bushels per hour; and

(g) (1) enclosed drag conveyor, with a capacity of 7,500 bushels per hour.

History

On September 3, 2002, Kokomo Grain Company submitted an application to the OAQ requesting to add new concrete silos and to be re-permitted, pursuant to the new permitting rules, 326 IAC 2, that became effective on December 25, 1998.

Emission Calculations

See Page 1 through 7 TSD Appendix A of this document for detailed emissions calculations.

Existing Approvals

The source is operating under a construction permit CP 103-8706-00005, issued on February 17, 1998.

After the new equipment is added the source will be become a Part 70 source, but chose to operate under a Federally Enforceable State Operating Permit (FESOP). Prior to these addition, the source would have needed a Minor Source Operating Permit (MSOP).

Recommendation

The staff recommends to the Commissioner that the Federally Enforceable State Operating Permit be approved. This recommendation is based on the following facts and conditions:

Unless otherwise stated, information used in this review was derived from the application and additional information submitted by the applicant.

An application for the purposes of this review was received on September 3, 2002, with additional information received on October 21, 2002, and March 11, 2003.

Unrestricted Potential Emissions

This table reflects the unrestricted potential emissions of the source, which includes proposed

and permitted emission units.

Pollutant	Unrestricted Potential Emissions (tons/yr)
PM	549.8
PM-10	168.5
SO_2	0.1
VOC	1.3
CO	19.3
NO_x	22.9

Note: For the purpose of determining Title V applicability for particulates, PM-10, not PM, is the regulated pollutant in consideration.

(a) The potential to emit (as defined in 326 IAC 2-1.1-1(16)) of Particulate Matter Less Than Ten Microns (PM10) are equal to or greater than 100 tons per year. Therefore, the source is subject to the provisions of 326 IAC 2-7. The source, requested to limit the PTE on the PM10 less than 100 tons per year in order to operate under the Federally Enforceable State Operating Permit (FESOP) Program.

Potential to Emit After Issuance

The following table summarizes the total potential to emit, which was based on limiting the grain that the source can process, including the control used in order to minimize Particulate Matter emissions. See Page 7 of 7 TSD Appendix A for detailed calculations on the grain throughput limit.

	Potential to Emit After Issuance (tons/year)						
Process/emission unit	PM	PM-10	SO_2	VOC	CO	NO_X	HAPs
Two Grain Dryers	128.54	33.74	0.14	1.3	19.3	22.9	-
Grain Receiving	104.8	34.4	0.0	0.0	0.0	0.0	-
Internal Handling	3.6	1.98	0.0	0.0	0.0	0.0	-
Bin Loading	6.8	1.71	0.0	0.0	0.0	0.0	-
Rail Shipping	4.7	0.38	0.0	0.0	0.0	0.0	-
Total PTE After Issuance	248.4	72.2	0.14	1.3	19.3	22.9	-

This existing source, which includes New Source Review is **not** a major stationary source because no attainment pollutant is emitted at a rate of 250 tons per year or greater and it is not in one of the 28 listed source categories. Therefore, pursuant to 326 IAC 2-2, and 40 CFR 52.21, the PSD requirements do not apply.

County Attainment Status

The source is located in Miami County.

Pollutant	Status
PM-10	attainment
SO_2	attainment
NO_2	attainment
Ozone	attainment
CO	attainment
Lead	not determined

(a) Volatile organic compounds (VOC) are precursors for the formation of ozone. Therefore, VOC emissions are considered when evaluating the rule applicability relating to the ozone standards. Miami County has been designated as attainment or unclassifiable for ozone.

Federal Rule Applicability

(a) New Source Performance Standards (NSPS)(326 IAC 12 and 40 CFR Part 60):

(1) 40 CFR Part 60.300, Subpart DD - New Source Performance Standards for Grain Elevators. This NSPS applies to grain terminal elevator with permanent storage capacity of 2.5 million U.S. bushels or any grain storage elevator with storage capacity of 1 million bushels, which includes the following facilities: truck loading and unloading stations, barge and ship loading and unloading stations, railcar loading and unloading stations, grain dryer and all grain handling operations which commences construction, modification, or reconstruction after August 3, 1978.

The source, which is a grain terminal elevator with storage capacity greater than 2.5 million bushels is subject to this NSPS since it was constructed after August 3, 1978; or since it is being modified in this permit. Pursuant to 40 CFR 60.302(c) the following requirements shall apply:

(A) On and after the 60th day of achieving the maximum production rate at which the affected facility will be operated, but no later than 180 days after initial startup, no owner or operator subject to the provisions of this subpart shall cause to be discharged into the atmosphere any fugitive emission from:

(i) Any individual truck unloading station, railcar unloading station, or railcar loading station, which exhibits greater than 5 percent opacity.

(ii) Any grain handling operation which exhibits greater than 0 percent opacity.

(iii) Any truck loading station which exhibits greater than 10 percent opacity.

(iv) Any barge or ship loading station which exhibits greater than 20 percent opacity.

(B) Pursuant to 40 CFR Part 60.303(b), the source shall determine compliance with the opacity standards listed above using Method 9 in 40 CFR 60, Appendix A.

The requirements of 40 CFR 60.302(a) do not apply to the two (2) Column Grain Dryers because they do not have a column plate perforation exceeding 0.094 inches.

The requirements of 40 CFR 60.302(b) applies to any process emissions. Process emission as defined in 40 CFR 60.301 of this NSPS means the “particulate matter which is collected by a capture system”. This definition is more specific to process emissions that are collected and captured, and did not say any process emissions that **could reasonably be** collected and captured. The source does not have a process where PM is collected by a capture system, therefore 40 CFR 60.302 is not applicable.

(2) There are no New Source Performance Standards (NSPS)(326 IAC 12 and 40 CFR Part 60) applicable to this source.

(b) There are no National Emission Standards for Hazardous Air Pollutants (NESHAPs)(326 IAC 14 and 40 CFR Part 63) applicable to this source.

State Rule Applicability - Entire Source

(a) 326 IAC 2-6 (Emission Reporting)
This source is not subject to 326 IAC 2-6 (Emission Reporting), because it is located in Miami County and has a potential to emit of less than 100 tons per year for CO, VOC, NOx, PM10 and SO2.

(b) 326 IAC 2-2 (Prevention of Significant Deterioration)
The source controlled PM potential to emit is greater than 250 tons per year, however, the source requested a limit in the grain throughput that they could process to avoid the applicability of 326 IAC 2-2. See grain throughput limit on Page 7 of 7 for detailed calculations.

(c) 326 IAC 5-1 (Visible Opacity Limitations)
Pursuant to 326 IAC 5-1-2 (Opacity Limitations), except as provided in 326 IAC 5-1-3 (Temporary Alternative Opacity Limitations), opacity shall meet the following, unless otherwise stated in this permit:

(1) Opacity shall not exceed an average of forty percent (40%) any one (1) six (6) minute averaging period as determined in 326 IAC 5-1-4.

(2) Opacity shall not exceed sixty percent (60%) for more than a cumulative total of fifteen (15) minutes (sixty (60) readings as measured according to 40 CFR 60, Appendix A, Method 9 or fifteen (15) one (1) minute nonoverlapping integrated averages for a continuous opacity monitor) in a six (6) hour period.

State Rule Applicability - Individual Facilities

(a) 326 IAC 6-3-2 (Process Operations)
Pursuant to 326 IAC 6-3-2 the particulate matter (PM) from the two (2) grain dryers shall be limited by the following:

Interpolation and extrapolation of the data for the process weight rate in excess of sixty thousand (60,000) pounds per hour shall be accomplished by use of the equation:

$E = 55.0 P^{0.11} - 40$ where E = rate of emission in pounds per hour and
P = process weight rate in tons per hour
= 4,747 bu/hr
= 132.9 ton /hr

$E = 55.0 (132.9)^{0.11} - 40$
= 54.17 lbs/hr
= 237.3 ton/yr, the two (2) grain dryers are in compliance, since their PM limited emission of 128.097 tons/yr is less than the allowable.

(b) 326 IAC 6-4 (Fugitive Dust Emissions)
The source is subject to 326 IAC 6-4 (Fugitive Dust Emissions). Pursuant to this rule, the fugitive dust shall not be visible crossing the boundary or property line of a source. Observances of visible emissions crossing property lines may be refuted by factual data

expressed in 326 IAC 6-4-2(1), (2) or (3).

Compliance Requirements

Permits issued under 326 IAC 2-8 are required to ensure that sources can demonstrate compliance with applicable state and federal rules on a more or less continuous basis. All state and federal rules contain compliance provisions, however, these provisions do not always fulfill the requirement for a more or less continuous demonstration. When this occurs IDEM, OAQ, in conjunction with the source, must develop specific conditions to satisfy 326 IAC 2-8-4. As a result, compliance requirements are divided into two sections: Compliance Determination Requirements and Compliance Monitoring Requirements.

Compliance Determination Requirements in Section D of the permit are those conditions that are found more or less directly within state and federal rules and the violation of which serves as grounds for enforcement action. If these conditions are not sufficient to demonstrate continuous compliance, they will be supplemented with Compliance Monitoring Requirements, also Section D of the permit. Unlike Compliance Determination Requirements, failure to meet Compliance Monitoring conditions would serve as a trigger for corrective actions and not grounds for enforcement action. However, a violation in relation to a compliance monitoring condition will arise through a source's failure to take the appropriate corrective actions within a specific time period.

The compliance monitoring requirements applicable to this source are as follows:

(a) The source grain throughput will be limited to 41,590,000 bushels per twelve-month period, with demonstration at the end of each month, to avoid the applicability of 326 IAC 2-2 and 326 IAC 2-7 Part 70 Permit Program.

(b) The source shall apply mineral oil to the grain after it is dumped into the dump pit.

(c) Pursuant to 40 CR Part 60, Subpart DD, on and after the 60th day of achieving the maximum production rate at which the affected facility will be operated, but no later than 180 days after initial startup, no owner or operator subject to the provisions of this subpart shall cause to be discharged into the atmosphere any fugitive emission from:

(1) Any individual truck unloading station, railcar unloading station, or railcar loading station, which exhibits greater than 5 percent opacity.

(2) Any grain handling operation which exhibits greater than 0 percent opacity.

(3) Any truck loading station which exhibits greater than 10 percent opacity.

(4) Any barge or ship loading station which exhibits greater than 20 percent opacity.

Conclusion

The operation of this grain terminal elevator shall be subject to the conditions of the attached **NSR/FESOP No.: 103-16038-00005.**

Appendix A: Emission Calculations

Company Name: Kokomo Grain Company
Address City IN Zip: East Pennsylvania, Amboy, Indiana 46911
MSOP: "103-16038
Plt ID: 103-00005
Reviewer: Aida De Guzman
Date Application Recei September 3, 2002

SUMMARY OF EMISSIONS

UNCONTROLLED EMISSIONS (TONS/YEAR)

PULLUTANTS	5,000 bu/hr Grain Dryer		3,500 bu/hr Grain Dryer		Grain Receiving Emissions	Internal Handling Emissions	Bin Loading "Emissions	Shipping (Rail) Emissions	Total Emissions
	Combustion Emissions	Drying Emissions	Combustion Emissions	Drying Emissions					
PM	0.22	134.9	0.22	94.43	187.64	63.6	40.7	28.1	549.8
PM10	0.87	33.7	0.87	23.6	61.5	35.40	10.22	2.29	168.5
VOC	0.63	0.0	0.63	0.0	0.0	0.0	0.0	0.0	1.3
SO2	0.07	0.0	0.07	0.0	0.0	0.0	0.0	0.0	0.1
CO	9.64	0.0	9.64	0.0	0.0	0.0	0.0	0.0	19.3
NOx	11.47	0.0	11.47	0.0	0.0	0.0	0.0	0.0	22.9

CONTROLLED EMISSIONS (TONS/YEAR)

PULLUTANTS	5,000 bu/hr Grain Dryer		3,500 bu/hr Grain Dryer		Grain Receiving Emissions	Internal Handling Emissions	Bin Loading "Emissions	Shipping (Rail) Emissions	Total Emissions
	Combustion Emissions	Drying Emissions	Combustion Emissions	Drying Emissions					
PM	0.22	134.9	0.22	94.43	187.64	6.4	12.2	8.4	444.4
PM10	0.87	33.7	0.87	23.6	61.5	3.54	3.07	1.57	128.7
VOC	0.63	0.0	0.63	0.0	0.0	0.0	0.0	0.0	1.3
SO2	0.07	0.0	0.07	0.0	0.0	0.0	0.0	0.0	0.1
CO	9.64	0.0	9.64	0.0	0.0	0.0	0.0	0.0	19.3
NOx	11.47	0.0	11.47	0.0	0.0	0.0	0.0	0.0	22.9

LIMITED CONTROLLED EMISSIONS (TONS/YEAR)

PULLUTANTS	5,000 bu/hr Grain Dryer		3,500 bu/hr Grain Dryer		Grain Receiving Emissions	Internal Handling Emissions	Bin Loading "Emissions	Shipping (Rail) Emissions	Total Emissions
	Combustion Emissions	Drying Both Dryers Emissions	Combustion Emissions						
PM	0.22	128.097	0.22		104.8	3.6	6.8	4.7	248.4
PM10	0.87	32.0	0.87		34.4	1.98	1.71	0.38	72.2
VOC	0.63	0.0	0.63		0.0	0.0	0.0	0.0	1.3
SO2	0.07	0.0	0.07		0.0	0.0	0.0	0.0	0.1
CO	9.64	0.0	9.64		0.0	0.0	0.0	0.0	19.3
NOx	11.47	0.0	11.47		0.0	0.0	0.0	0.0	22.9

Appendix A: Emissions Calculations
Natural Gas Combustion Only
10 < MM BTU/HR <100
Natural Gas Fired Grain Dryer

Company Name: Kokomo Grain Company
Address City IN Zip: East Pennsylvania, Amboy, Indiana 46911
MSOP: "103-16038
Plt ID: 103-00005
Reviewer: Aida De Guzman
Date Application Received: September 3, 2002

Heat Input Capacity MMBtu/hr	Potential Throughput MMCF/yr
26.19 column grain dryer using natural gas as fuel	229.4

Grain dryer capable of drying 5,000 bushel per hour

	Pollutant					
	PM	PM10	SO2	NOx	VOC	CO
Emission Factor in lb/MMCF	1.9	7.6	0.6	100.0	5.5	84.0
Potential Emission in tons/yr	0.22	0.87	0.07	11.47	0.63	9.64

*PM emission factor is filterable PM only. PM10 emission factor is filterable and condensable PM10 combined.

**Emission Factors for NOx: Uncontrolled = 100, Low NOx Burner = 50, Low NOx Burners/Flue gas recirculation = 32

Methodology

All emission factors are based on normal firing.
MMBtu = 1,000,000 Btu
MMCF = 1,000,000 Cubic Feet of Gas

Emission Factors are from AP 42, Chapter 1.4, Tables 1.4-1, 1.4-2, 1.4-3, SCC #1-02-006-02, 1-01-006-02, 1-01-006-02, 1-03-006-02 and 1-03-006-03 (SUPPLEMENT D 3/98)
Emission (tons/yr) = Throughput (MMCF/yr) x Emission Factor (lb/MMCF)/2,000 lb/ton

Potential Throughput (MMCF) = Heat Input Capacity (MMBtu/hr) x 8,760 hrs/yr x 1 MMCF/1,000 MMBtu

Appendix A: Emissions Calculations
Natural Gas Combustion Only
10 < MM BTU/HR <100
Natural Gas Fired Grain Dryer

Company Name: Kokomo Grain Company
Address City IN Zip: East Pennsylvania, Amboy, Indiana 46911
MSOP: "103-16038
Plt ID: 103-00005
Reviewer: Aida De Guzman
Date Application Received: September 3, 2002

Heat Input Capacity MMBtu/hr	Potential Throughput MMCF/yr
26.19 column grain dryer using natural gas as fuel	229.4

Grain dryer capable of drying 3,500 bushel per hour

	Pollutant					
	PM	PM10	SO2	NOx	VOC	CO
Emission Factor in lb/MMCF	1.9	7.6	0.6	100.0	5.5	84.0
Potential Emission in tons/yr	0.22	0.87	0.07	11.47	0.63	9.64

Methodology:
MMBtu = 1,000,000 Btu
MMCF = 1,000,000 Cubic Feet of Gas
Emission Factors for NOx: Uncontrolled = 100, Low NOx burner = 83, Flue gas recirculation = 30
Emission Factors for CO: Uncontrolled = 35, Low NOx Burner = 61, Flue gas recirculation = 34
Potential Throughput (MMCF) = Heat Input Capacity (MMBtu/hr) x 8,760 hrs/yr x 1 MMCF/1,000 MMBtu
Emission Factors are from AP 42, Chapter 1.4, Tables 1.4-1, 1.4-2, 1.4-3, SCC #1-02-006-02
Emission (tons/yr) = Throughput (MMCF/yr) x Emission Factor (lb/MMCF)/2,000 lb/ton

Appendix A: Emissions Calculations
Column Grain Dryer Emission Calculations

Company Name: Kokomo Grain Company
Address City IN Zip: East Pennsylvania, Amboy, Indiana 46911
MSOP: "103-16038
Plt ID: 103-00005
Reviewer: Aida De Guzman
Date Application Received: September 3, 2002

Two (2) column grain dryers:
1 - 26.19 mmBtu/hr @ 3,500 bushels/hr
1 - 26.19 mmBtu/hr @ 5,000 bushels/hr

State Potential Emissions (uncontrolled):

Dryer Capacity (bu/hr)	Bushel Weight (lbs/bu)	PM Emission Factor (lbs PM/ton)	PM10 Emission Factor 25% of PM	Potential Uncontrolled PM Emissions (tons/yr)	Potential Uncontrolled PM10 Emissions (tons/yr)
5,000	56	0.220	25%	134.90	33.73

Federal Potential Emissions (controlled):

ential Uncontro PM Emissions (tons/yr)	Potential Uncontrolled PM10 Emissions (tons/yr)	Control Device Type:	Control Device Control Efficiency	Potential Uncontrolled PM Emissions (tons/yr)	Potential Controlled PM10 Emissions (tons/yr)
134.90	33.73	n/a	n/a	134.9	33.73

Methodology:

Emission factors are from U.S.EPA's AP-42, Interim Section 9.9.1, 11/95, Table 9.9.1-2

Potential Uncontrolled PM/PM10 Emissions (tons/yr) = Dryer Capacity (bu/hr) * Bushel Weight (lbs/bu) * (1 ton/2,000 lbs) * PM/PM10 Emission Factor (lbs PM/ton) * (8,760 hrs/yr) * (

Potential Controlled PM/PM10 Emissions (tons/yr) = Potential Uncontrolled PM/PM10 Emissions (tons/yr) * [1 - (Capture Efficiency * Control Efficiency)]

Appendix A: Emissions Calculations
Existing Source Emissions - Column Grain Dryer Emission Calculations

Company Name: Kokomo Grain Company
Address City IN Zip: East Pennsylvania, Amboy, Indiana 46911
MSOP: "103-16038
PIt ID: 103-00005
Reviewer: Aida De Guzman
Date Application Received: September 3, 2002

Emission Calculations for one (1) 3,500 bu/hr column grain dryer:

State Potential Emissions (uncontrolled):					
Dryer Capacity (bu/hr)	Bushel Weight (lbs/bu)	PM Emission Factor (lbs PM/ton)	PM10 Emission Factor 25% of PM	Potential Uncontrolled PM Emissions (tons/yr)	Potential Uncontrolled PM10 Emissions (tons/yr)
3,500	56	0.220	25%	94.43	23.61
Federal Potential Emissions (controlled):					
ential Uncontro PM Emissions (tons/yr)	Potential Uncontrolled PM10 Emissions (tons/yr)	Control Device Type:	Control Device Control Efficiency	Potential Uncontrolled PM Emissions (tons/yr)	Potential Controlled PM10 Emissions (tons/yr)
38.39	23.61	n/a	n/a	94.43	23.61

Methodology:

Emission factors are from U.S.EPA's AP-42, Interim Section 9.9.1, 11/95, Table 9.9.1-2

Potential Uncontrolled PM/PM10 Emissions (tons/yr) = Dryer Capacity (bu/hr) * Bushel Weight (lbs/bu) * (1 ton/2,000 lbs) * PM/PM10 Emission Factor (lbs PM/ton) * (8,760 hrs/yr) * (

Potential Controlled PM/PM10 Emissions (tons/yr) = Potential Uncontrolled PM/PM10 Emissions (tons/yr) * [1 - (Capture Efficiency * Control Efficiency)]

Appendix A: Emission Calculations

GRAIN ELEVATOR

Company Name: Kokomo Grain Company
Address City IN Zip: East Pennsylvania, Amboy, Indiana 46911
MSOP: 103-16038
Plt ID: 103-00005
Reviewer: Aida De Guzman
Date Application Received: Sept. 3, 2002

Uncontrolled Potential to Emit (tons/year)					
	GRAIN RECEIVING (truck)	'INTERNAL OPERATIONS	BIN LOADING	SHIPPING (rail)	TOTAL
Bushels Throughput (bu/hr)	8,500	8,500	8,500	8,500	
Bushels Throughput (bu/yr)	74,460,000	74,460,000	74,460,000	74,460,000	
Grain Weight (lb/bu)	56	56	56	56	
PM Emission Factor (lb/ton)	0.18	0.061	0.039	0.027	
PM 10 Emission Factor (lb/ton)	0.059	0.034	0.0098	0.0022	
Potential PM Emissions (tons/yr)	187.6392	63.58884	40.65516	28.14588	320.02908
Potential PM10 Emissions (tons/yr)	61.50396	35.44296	10.215912	2.293368	109.4562
		Controlled Potential to Emit (tons/year)			
	GRAIN RECEIVING	'INTERNAL OPERATIONS	BIN LOADING	SHIPPING	TOTAL
Potential PM Emissions (tons/yr)	187.6392	63.58884	40.65516	4.7	
Potential PM10 Emissions (tons/yr)	61.50396	35.44296	10.215912	0.38	
Control Equipment (1)	N/A	mineral oil and enclosure	mineral oil	mineral oil	
Control Efficiency	0.00%	90%	70%	70%	
Controlled PM Emissions (tons/yr)	187.6392	6.35	12.19	8.4	214.5792
Controlled PM10 Emissions (tons/yr)	61.50396	3.54	3.066	1.57	69.67996

Note: Mineral oil is added to the grain after it is received, thus mineral oil control applies to all operations except grain receiving.
The installation of 2 concrete silos and 2 enclosed conveyors will not increase the throughput of grain being processed by the source, but will allow the source to hold the grain from harvest time till sometime the following spring or summer for economic advantage.

The PTE will be based on the capacity of the emission unit in the process that has the smallest capacity or where bottlenecked occurs.
In this case the bottlenecked is on the 2 dryers (8,500 bu/hr total or 74,460,000 bu/yr).

Methodology:
Emission Factors are from USEPA's AP-42, Table 9.9.1-1
Uncontrolled 'PM/PM10 Emissions (tons/yr) = throughput, bu/yr * grain wt, lb/bu * ton/2000 lb * Ef, lb/ton * ton /2000 lb
Controlled PM/PM10 Emissions (tons/yr) = Uncontrolled PM/PM10 Emissions * (1-Control Efficiency)

Appendix A: Emission Calculations
GRAIN ELEVATOR

Company Name: Kokomo Grain Company
Address City IN Zip: East Pennsylvania, Amboy, Indiana 46911
MSOP: 103-16038
Plt ID: 103-00005
Reviewer: Aida De Guzman
Date Application Received: Sept. 3, 2002

	Limited Uncontrolled PTE (tons/yr)					
	2 GRAIN DRYERS	GRAIN RECEIVING (truck)	'INTERNAL OPERATIONS	BIN LOADING	SHIPPING (rail)	TOTAL
Dryers Total Rated Capacity (bu/hr)	8,500					
Bushels Limited Throughput (bu/yr)	41,590,000	41,590,000	41,590,000	41,590,000	41,590,000	
Grain Weight (lb/bu)	56	56	56	56	56	
PM Emission Factor (lb/ton)	0.22	0.18	0.061	0.039	0.027	
PM 10 Emission Factor (lb/ton)	0.055	0.059	0.034	0.0098	0.0022	
Potential PM Emissions (tons/yr)	128.0972	104.8068	35.51786	22.70814	15.72102	306.85102
Potential PM10 Emissions (tons/yr)	32.0243	34.35334	19.79684	5.706148	1.280972	93.1616
		Limited & Controlled Potential to Emit (tons/year)				
	2 GRAIN DRYERS	GRAIN RECEIVING	'INTERNAL OPERATIONS	BIN LOADING	SHIPPING	TOTAL
Potential PM Emissions (tons/yr)	128.0972	187.6392	63.58884	40.65516	4.7	
Potential PM10 Emissions (tons/yr)	32.0243	61.50396	35.44296	10.215912	0.38	
Control Equipment (1)	N/A	N/A	mineral oil and enclosure	mineral oil	mineral oil	
Control Efficiency	0.00%	0.00%	90%	70%	70%	
Limited & Controlled PM Emissions (tons/yr)	128.0972	104.8068	3.55	6.81	4.71	247.974
Limited & Controlled PM10 Emissions (tons/yr)	32.0243	34.35334	1.98	1.71	0.38	70.44764

Note: Mineral oil is added to the grain after it is received, thus mineral oil control applies to all operations except grain receiving and grain drying.
The mineral oil in the grain will be dried during the Drying process therefore, no control will be considered for this process.

Dryer's PM10 Ef = 25% of PM = 0.055 lb/ton

Methodology:
Emission Factors are from USEPA's AP-42, Table 9.9.1-1
Uncontrolled 'PM/PM10 Emissions (tons/yr) = throughput, bu/yr * grain wt, lb/bu * ton/2000 lb * Ef, lb/ton * ton /2000 lb
Controlled PM/PM10 Emissions (tons/yr) = Uncontrolled PM/PM10 Emissions * (1-Control Efficiency)